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Numerische Mathematik

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Each paper should be preceded by a **short summary** in English and the **subject classifications** according to the classification schemes of the Mathematical Reviews and the Computing Reviews (AMS (MOS) and CR numbers). If the paper is not in English, an English title is required.

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3. Zlamal, M.: Some recent advances in the mathematics of finite elements. In: The mathematics of finite elements (J.R. Whiteman, ed.), pp. 59–81. London: Academic Press 1973

2. Special Alphabets or Typefaces

Boldface	**A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z** **a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z**
Script	𝒜, ℬ, 𝒞, 𝒟, ℰ, ℱ, 𝒢, ℋ, ℐ, 𝒥, 𝒦, ℒ, ℳ, 𝒩, 𝒪, 𝒫, 𝒬, ℛ, 𝒮, 𝒯, 𝒰, 𝒱, 𝒲, 𝒳, 𝒴, 𝒵 𝒶, 𝒷, 𝒸, 𝒹, ℯ, 𝒻, ℊ, 𝒽, 𝒾, 𝒿, 𝓀, 𝓁, 𝓂, 𝓃, ℴ, 𝓅, 𝓆, 𝓇, 𝓈, 𝓉, 𝓊, 𝓋, 𝓌, 𝓍, 𝓎, 𝓏
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Gothic	𝔄, 𝔅, ℭ, 𝔇, 𝔈, 𝔉, 𝔊, ℌ, ℑ, 𝔍, 𝔎, 𝔏, 𝔐, 𝔑, 𝔒, 𝔓, 𝔔, ℜ, 𝔖, 𝔗, 𝔘, 𝔙, 𝔚, 𝔛, 𝔜, ℨ 𝔞, 𝔟, 𝔠, 𝔡, 𝔢, 𝔣, 𝔤, 𝔥, 𝔦, 𝔧, 𝔨, 𝔩, 𝔪, 𝔫, 𝔬, 𝔭, 𝔮, 𝔯, 𝔰, ſ, 𝔱, 𝔲, 𝔳, 𝔴, 𝔵, 𝔶, 𝔷
Special Roman	𝔸, 𝔹, ℂ, 𝔻, 𝔼, 𝔽, 𝔾, ℍ, 𝕀, 𝕁, 𝕂, 𝕃, 𝕄, ℕ, 𝕆, ℙ, ℚ, ℝ, 𝕊, 𝕋, 𝕌, 𝕍, 𝕎, 𝕏, 𝕐, ℤ, 𝟙
Greek	$\Gamma, \Delta, \Theta, \Lambda, \Xi, \Pi, \Sigma, \Phi, \Psi, \Omega$ $\alpha, \beta, \gamma, \delta, \varepsilon, \zeta, \eta, \theta, \vartheta, \iota, \kappa, \lambda, \mu, \nu, \xi, o, \pi, \rho, \sigma, \tau, \upsilon, \varphi, \phi, \chi, \psi, \omega$

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brown:	boldface (e.g. headings, word symbols, etc.)
yellow:	upright abbreviations (e.g. Re, Im, log, sin, ord, id, lim, sup, etc.)
green:	Script
wavy line (in black):	Sanserif
blue:	Gothic
red:	Greek
violet:	the numeral 1, and zero (to distinguish them from the small letter *l* and the capital letter *O*)

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The words "*Proof*", "*Remark*", "*Definition*", "*Note*" etc. are printed in *italics* with the formulation in ordinary typeface.

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Word symbols in programming languages should be marked for Sanserif.

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The following are frequently confused:

$\cup$, $\mathsf{\mathbf{u}}$, $\bigcup$, U; $\circ, o, O, 0$; $\times, x, X, \kappa$; $\vee, v, \nu$; $\theta, \Theta, \phi, \varphi, \Phi, \varnothing, \emptyset$; ψ, Ψ; $\varepsilon, \in$;

a', a^1; the symbol a and the indefinite article a;

also the handwritten Roman letters:

c, C; e, l; I, J; k, K; o, O; p, P; s, S; u, U; v, V; w, W; x, X; z, Z;

Please take care to distinguish them in some way.

4. Preferred Forms

preferred form	instead of	preferred form	instead of
$A^*, \tilde{b}, \gamma', \mathfrak{v}, \mathbf{v}$	$\bar{A}, \hat{b}, \check{\gamma}, \vec{v}$	$f\colon A \to B$	$A \xrightarrow{f} B$
lim sup, lim inf	$\overline{\lim}, \underline{\lim}$	$\frac{\cos(1/x)}{(a+b/x)^{1/2}}$	$\frac{\cos\frac{1}{x}}{\sqrt{a+\frac{b}{x}}}$
$\exp(-(x^2+y^2)/a^2)$	$e^{-\frac{x^2+y^2}{a^2}}$		
f^{-1}	$\overset{-1}{f}$		

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Example showing the effect of reduction × $^1/_2$.

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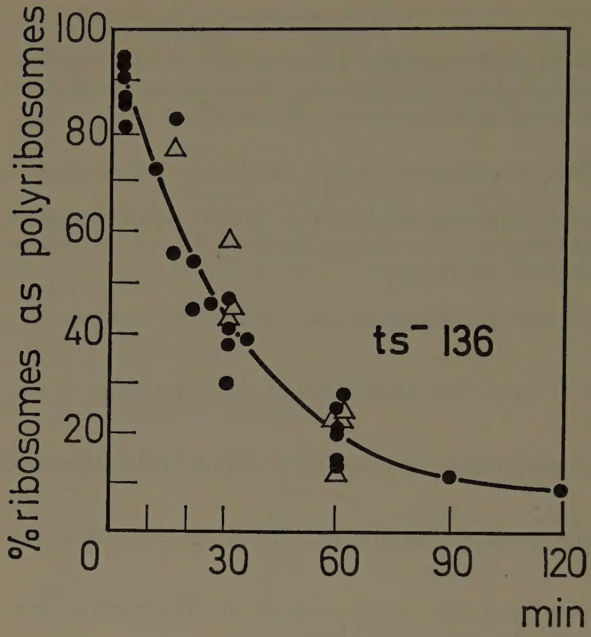
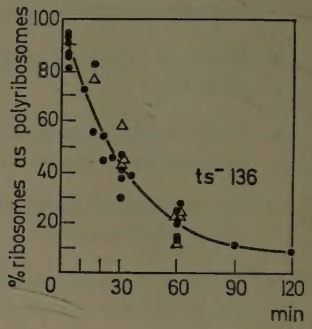
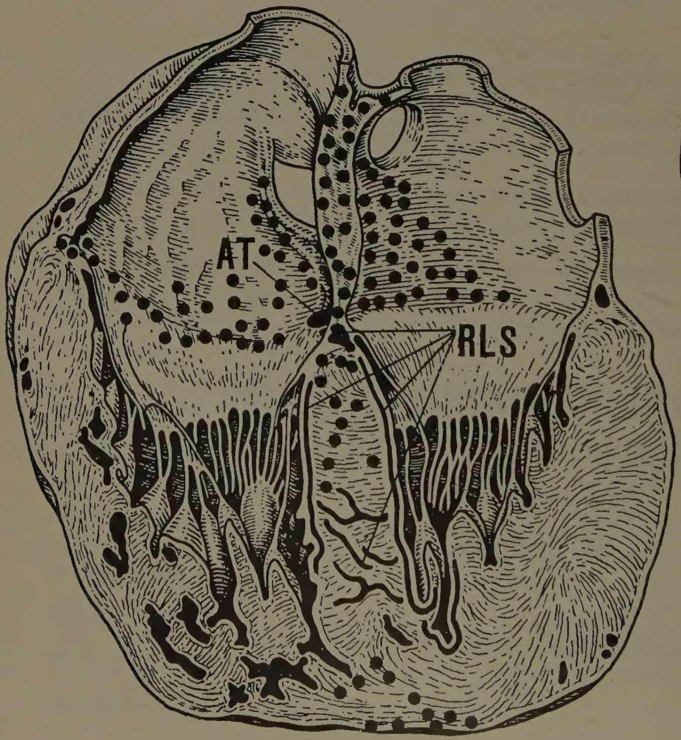
aabcdefghijklmnopqrstuvwxyzß
1234567890
(!:"„+=-;x?%)

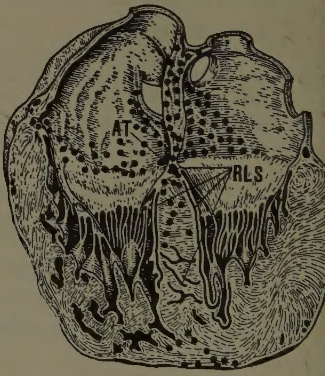
ABCDEFGHIJKLMNOPQRSTUVWXYZ
aabcdefghijklmnopqrstuvwxyzß
1234567890
(!:"„+=-;x?%)

Some more examples see overleaf









Examples showing the effect of reduction × 1/2